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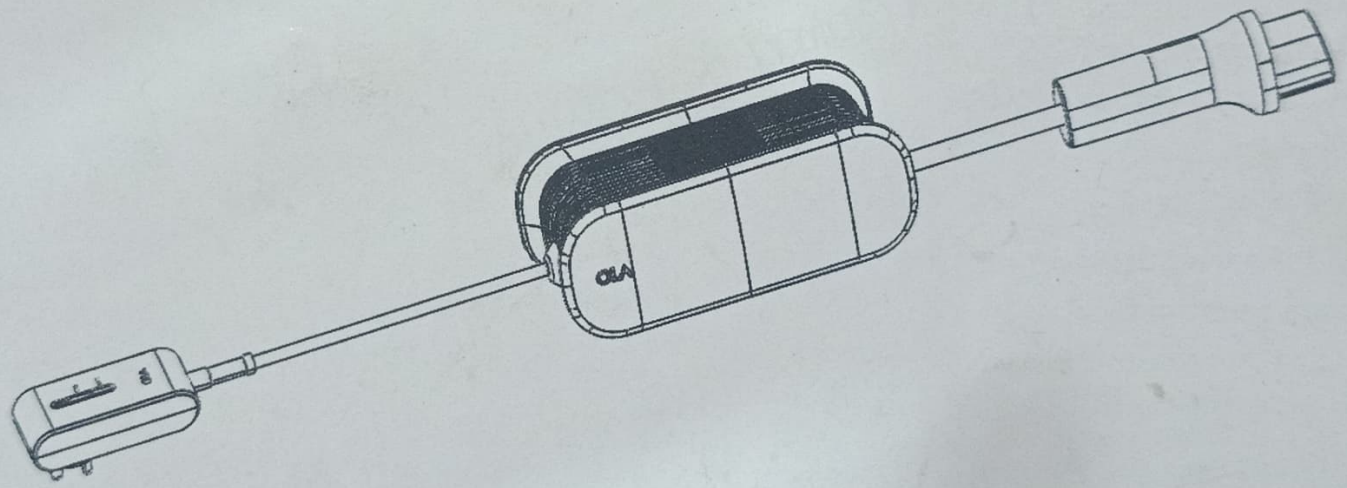
Portable Charger PCS20001

User Manual



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2. Note, Cautions and Warning

NOTE: A NOTE indicates important information that helps you make better use of your charger.

CAUTION: A CAUTION indicates potential damage to hardware or loss of data if instructions are not followed.

WARNING: A WARNING indicates a potential for property damage, personal injury, or death.

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3. Safety instructions

Use the following safety guidelines to protect your charger from potential damage and ensure your personal safety.

3.1 Note:

Before using the charger, read all the instructions and cautionary markings on the charger and the user manual carefully.

3.2 Warning:

a) Do not attempt to disassemble, repair, tamper with or modify the charger. The charger is not user serviceable. Contact customer support using Companion app for any repairs or service.

b) Please operate strictly in accordance with the user manual. The users take responsibility for the consequences of illegal operation. Our company assumes no responsibility.

c) Do not use the charger if it is defective or appears to be cracked, frayed, broken, damaged or fails to operate.

d) When transporting the charger, handle it with care. Do not subject it to strong force or impact. Do not pull, twist, tangle, drag or step on the charger to prevent damage to it or any components.

e) When not in use, store the charger in a dry and clean environment to prevent unnecessary exposure to contamination or moisture.

f) Never spray any liquid onto the charger handle or input PRCD. Never puncture, drop or submerge the charger handle or PRCD plug in any kind of liquid.

g) Unplug the power cord before cleaning the charger.

h) Do not use any chemicals to clean the charger. Do not install or use the charger near flammable, explosive, harsh or combustible materials, chemicals, or vapors.

i) Ensure that the socket has healthy earthing.

j) Do not bend the pins in the input PRCD plug. Keep the plug and outlets clean.

k) Do not put sharp objects into the vents in the charger. It may result in fire or electric shock.

l) If there is a strange sound, odor or smoke, unplug the charger immediately.

m) Do not touch the charger's end terminals with fingers or sharp metallic objects, such as wires, tools or needles. Do not forcefully fold or apply pressure on any part of the charger or damage it with sharp objects.

n) Use of the charger may affect or impair the time, operation of any medical or implantable electronic devices, such as an implantable cardiac pacemaker or an implantable cardioverter defibrillator. Before using the charger, check with your electronic device manufacturer concerning the effects that charging may have on such electronic devices.

o) Do not unplug the charger by pulling on the cord. Always grasp the PRCD plug and pull.

p) Do not place the cord or charger near heating elements.

q) Ensure you do not ever use a damaged cable.

r) Always wipe the charger clean with a soft dry cloth. Do not use water.

s) Ensure the charger is not placed in a spot susceptible to continuous water flow.

t) Unplug the power cord once charged or if you do not plan on using the charger for an extended period of time.

3.3 Caution:

a) It's an electronic device, and shouldn't be used by children.

b) Our charger belongs to a Class-II + Class-I electrical appliance, please be aware of safety issues while using it.

c) A reliable grounded power supply must be applied; the ground wire of the power supply should be buried in the ground, and it should not be connected to utilities such as water pipes; the ground and neutral wires of the power supply should be separated, and the two wires cannot be connected together.

d) It is not recommended to use private power generators as a power source for charging.

e) Incorrect usage of the charger could potentially damage either the vehicle's battery and/or the charger itself. Any resulting damage is excluded from the vehicle warranty.

f) Do not use an extension cord to power the charger.

4. Overview

Dash chargers for Li-ion based OLA batteries, which are used to power light electric vehicles (LEVs), are most suitable for home, office, and domestic charging scenarios.

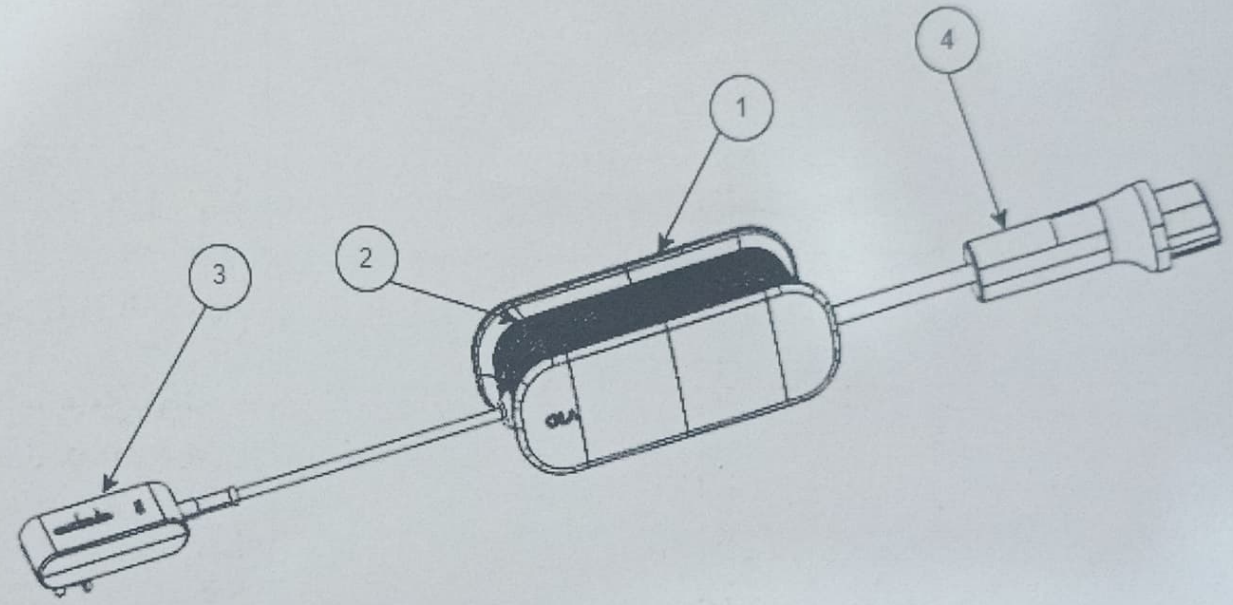
It operates under harsh electrical and thermal environments, providing unmatched performance and reliability.

5. Specifications and Working environment

Specifications	
Operating voltage	170V AC - 270V AC
Wiring	Single-phase
Frequency	50 Hz
Output	48Vdc 12A
Working environment	
Working Temperature Range	0°C~50°C
Storage Temperature	-20°C~70°C
Relative Humidity	5%~95%
Altitude	<2300m
Pollution Degree	PD2

6. General structure description

The general structure of the charging system is as shown below consisting of the following parts.

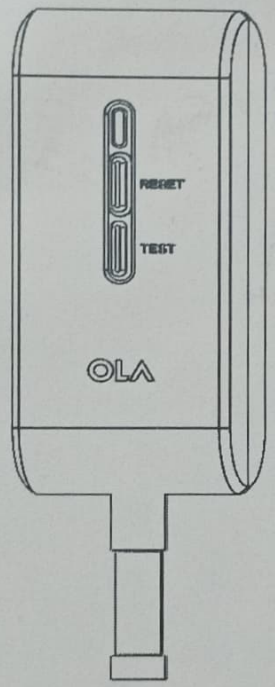


1. Charger Casing
2. Charger Assembly
3. PRCD
4. Output Charging connector

7. Electrical interfaces

The charger has the following electrical interfaces which needs to be checked and verified before charging is initiated.

7.1 Inlet PRCD Plug



Front View

Rear View

The Rating of the PRCD plug is - 3 Pin, 5A, 30mA.
In the 3-pin PRCD inlet plug, the top pin is the earth or ground connection.
This grounding or earthing helps any dangerous residual electricity or excess electricity from being passed.
The Indicating Components of the PRCD Plug is mentioned below

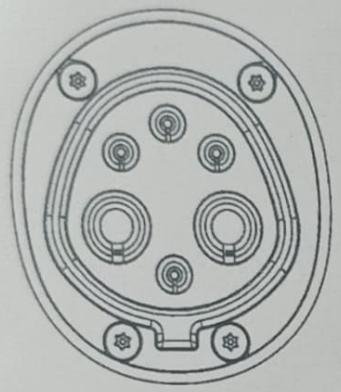
a) **Test Button:** To check if the PRCD is working.

b) **Reset Button:** To restore the charging after the PRCD is tripped due to a fault or after pressing the Test Button.

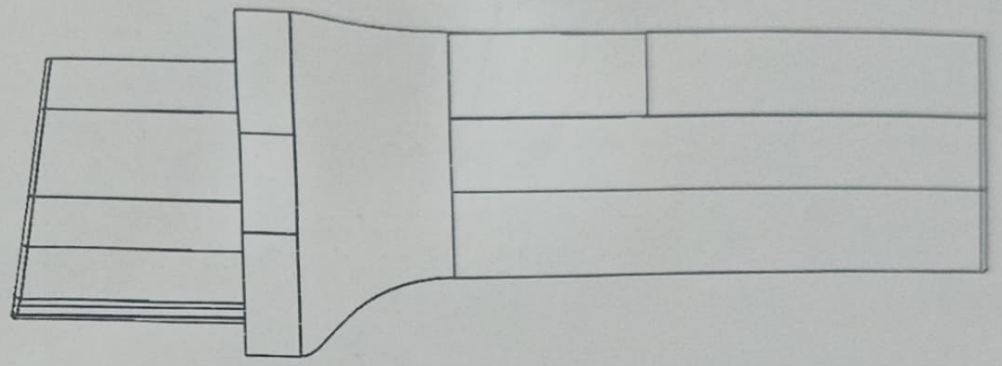
c) **LED:** This LED will glow in Green color, When Reset Button is pressed or if there is power supply available and no Residual Ground Leakage Fault in the charger. The LED will not glow when it is tripped or there is Residual Ground Leakage fault in the charger .

NOTE: It is recommended to check the PRCD once a month. To check, you'll need to press the test button. If the power cuts off to the portable charger, it's working correctly. Press the reset button again to restore the Charging.

7.2 Charger output connector



Front View

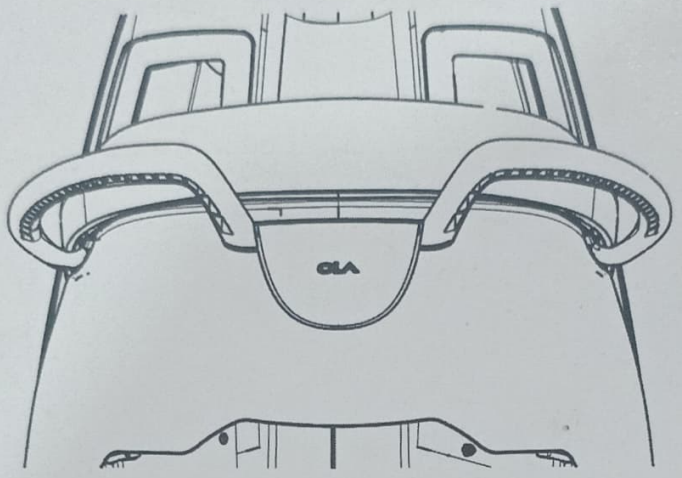


Side View

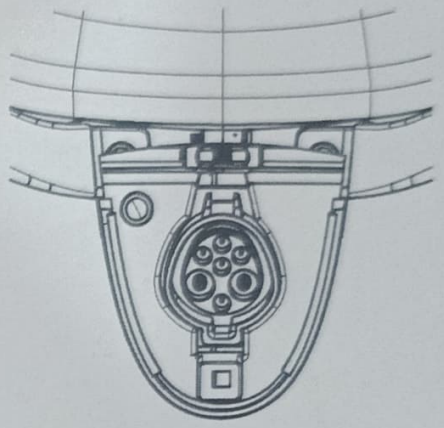
8. Battery charging procedure

The user needs to follow the below procedure for charging the vehicle battery.

a) Connect the charger output connector gun to the vehicle inlet.
b) Connect the charger input PRCD plug to the supply socket.
c) Switch on the socket power supply.
d) Check the vehicle head unit display for charging status.



Vehicle Inlet
(closed)



Vehicle Inlet
(Open)
enlarged view

9. After charging completion

The user needs to follow the below procedure when the battery is completely charged.

a) Switch off the socket power supply to which the PRCD plug is connected and remove the plug.
b) Remove the charging gun from the vehicle inlet.
c) Wrap the input and output cables around the charger assembly and secure it as shown below.

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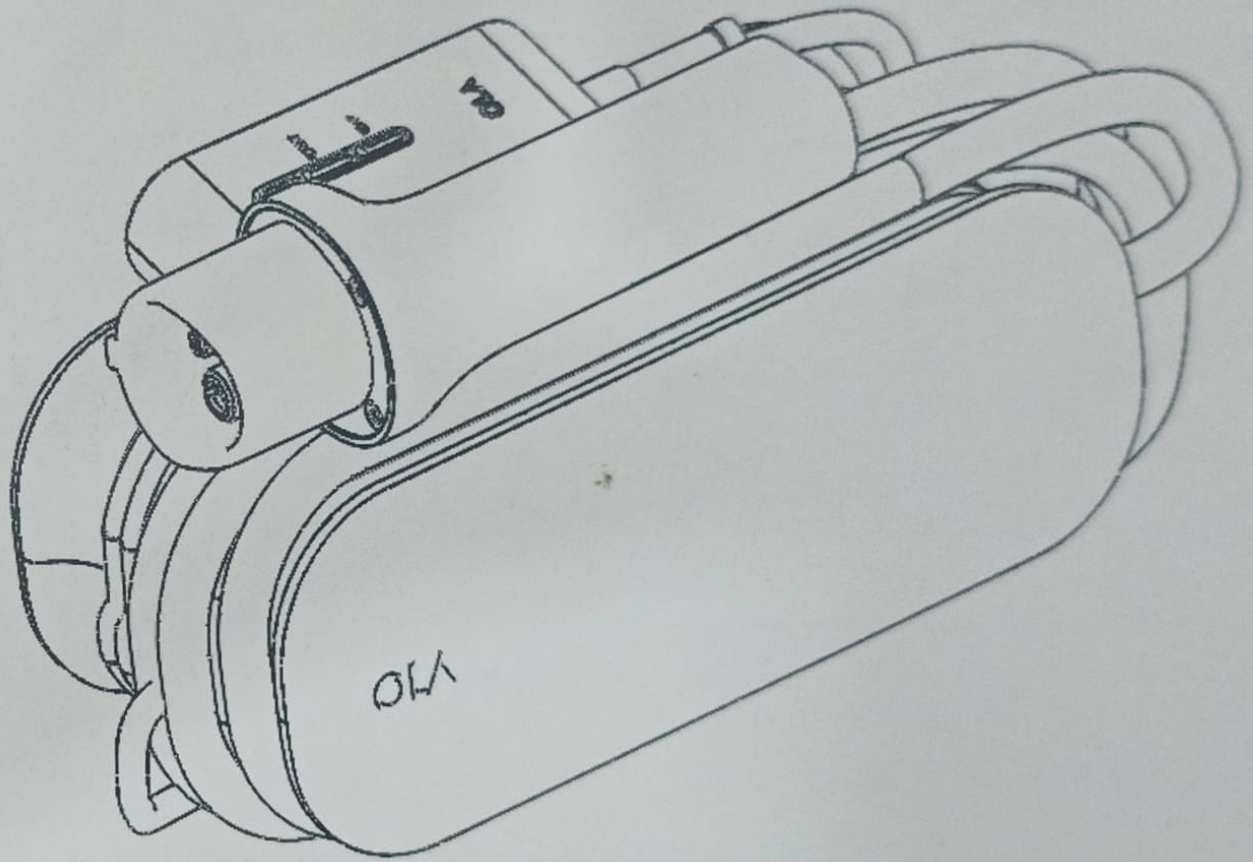
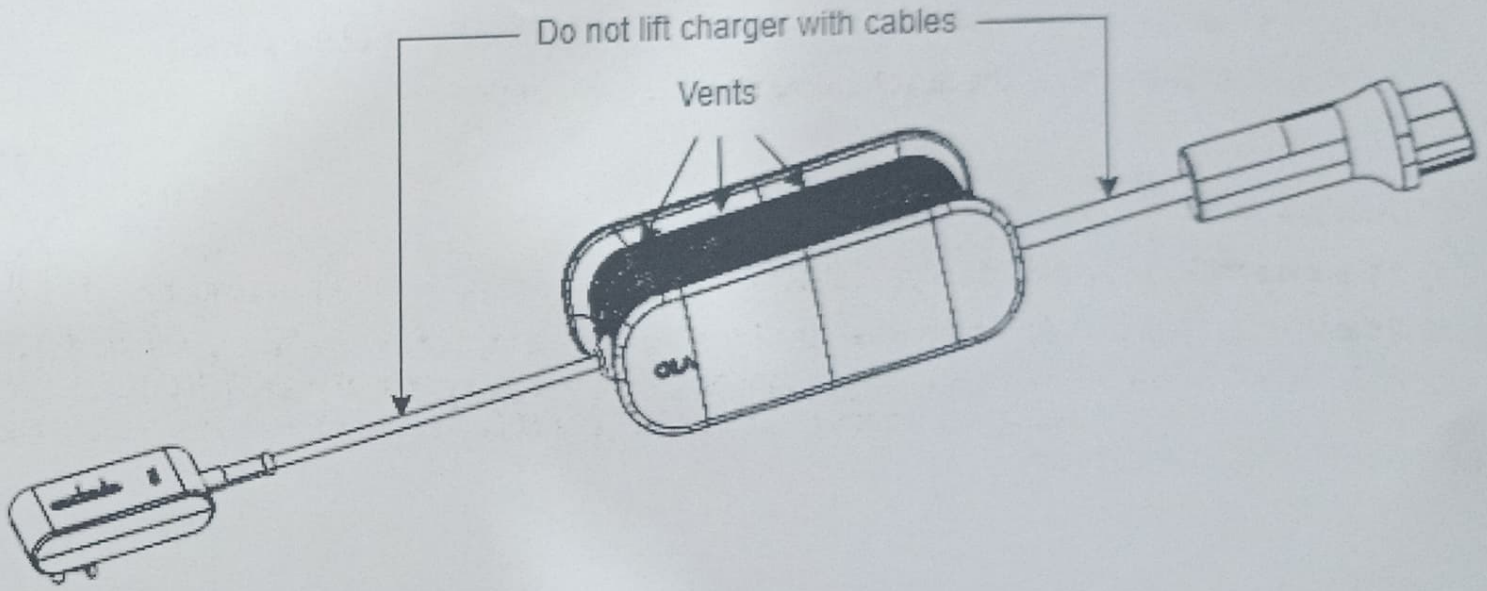


10. How to handle

The charger needs to be handled with care. The below instructions are to be followed while operating the charger.

10.1 The Do's and Don'ts



a) Do not lift the charger using input or output cable.

b) Do not cover the vents of the charger with any materials (clothes, books, etc.) while using, it should be well ventilated, always.

c) Do not keep the charger inside the bag or vehicle boot while charging.

d) Do not insert/poke any foreign objects into the vents of the charger.

e) Make sure that the charger vents are clean for the effective functioning of the charger.

f) It is recommended to clear the dust from vents using a dry cloth.

10.2 Troubleshoot

a) If there is a fault in the charger, please check carefully whether all the external cables are connected properly.

b) If the vehicle is not charging, even when the input power from the socket outlet is available, disconnect the PRCD plug. Manually check whether the output connector is connected properly to the vehicle inlet. Reconnect the PRCD plug and switch on the socket outlet supply. If the charger still fails to restart even after 3 trials, please get in touch with the customer support.